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DATE MAILED: 11/26/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/050,259	01/16/2002	Horst Greiner	DE010020	9232	
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U.S. Philips Corporation			EXAMINER		
580 White Plains Road Tarrytown, NY 10591			TSIDULKO	TSIDULKO, MARK	
			ART UNIT	PAPER NUMBER	
			2875		

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. 10/050,259 GRIBNER, HORST	·		Application No.	Mc-			
## Examiner ## Art Unit ## Mark Tsidulko ## 2875 ## The MAILING DATE of this communication appears on the cover sheet with the correspondence address ## Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. • Extensions of time may be variabled under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (8) MONTH'S from the mailing date of this communication. • If the period for reply self-time drove is last an attitut (90) days, a reply within the statutory minimum of thirty (90) days will be considered sinely. • Failure to reply welf-time the real or extended period for reply will, by statute, capte the provision of the provision of the communication. Self-time to reply welf-time the statutory minimum of thirty (90) days will be considered sinely. • Any reply received by the office after than three mailing date of this communication. Expensive the reply welf-time the statutory date of this communication. Expensive the reply welf-time adjustment. See 37 CFR 1.704(b). **Status** 1) ★ Responsive to communication(s) filled on **O6 January 2002** 2a) ★ This action is FINAL. 2b) ★ This action is non-final. 3) ★ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** 4) ★ Claim(s) **1-13** is/are pending in the application. 4a) Of the above claim(s) **is/are allowed. 5) ★ Claim(s) **1-13** is/are allowed. 6) ★ Claim(s) **1-13** is/are objected to. 8) ★ Claim(s) **5-7.10.11** and *13** is/are rejected. 7) ★ Claim(s) **5-7.10.11** and *13** is/are rejected. 7) ★ Claim(s) **5-7.10.11** and *13** is/are objected to by the Examiner. Application Papers 9) ★ The specification is objected to by the Examiner. Application Papers 11) ★ The proposed drawings or required in reply to this Office action. 12) ★ The p							
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Efference of time may be available under the period after 51X (8) MONTH'S from the mailing date of this communication. If the period of reply is specified above, the maximum statutory period will apply and will expire 31X (8) MONTHS from the mailing date of this communication. If the period for reply is specified above, the maximum statutory period will apply and will expire 31X (8) MONTHS from the mailing date of this communication. Failure to reply which the set or standed period for reply within the statutory period will apply and will expire 31X (8) MONTHS from the mailing date of this communication. Failure to reply which the set or standed period for reply will be the statutory period will apply and will expire 31X (8) MONTHS from the mailing date of this communication, and the set of the period of the period will apply and will expire 31X (8) MONTHS from the mailing date of this communication, and the period of the period will apply and will expire 31X (8) MONTHS from the mailing date of this communication, and the period of the period of the period will apply and will expire 31X (8) MONTHS from the mailing date of this communication. Status 1) □ Responsive to communication(s) filed on 06 January 2002 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-13 is/are pending in the application. 4a) ○ Claim(s) 1-13 is/are pending in the application. 5b □ Claim(s) 1-57.10.11 and 13 is/are rejected. 7c □ Claim(s) 1-57.10.11 and 13 is/are rejected. 7c □ Claim(s) 1-57.10.11 and 13 is/are rejected. 1d □ Claim(s) 1-57.10.							
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	1.⊠	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No	2.						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).	14) Ackn	owledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e	e) (to a provisional application).			
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)		-					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 8. 4) Interview Summary (PTO-413) Paper No(s). Notice of Informal Patent Application (PTO-152) 6) Other:	2) Notice of E	Praftsperson's Patent Drawing Review (PTO-948)	5) 🔲 Notice of Informal F				

DETAILED ACTION

1. The submission of preliminary amendment filed on 11/09/02 is acknowledged. At this point claim 13 has been amended and remaining claims left unchanged. Thus, claims 1-13 are at issue in the instant application.

Specification

2. The abstract of the disclosure is objected to because of using claim language: "comprises" should be changed to "has", (Abstract, line 2). Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims **1-5**, **10**, **11**, **13** are rejected under 35 U.S.C. 103(a) as being unpatentable over Torihara et al. (U.S. 4,714,983) in view of Kim et al. (US 2002/0001184).

Referring to Claim 1 Torihara et al. disclose (Fig. 12) a backlighting device having a plurality of channels (housings) [122] for accommodating linear light source. Coupling of the light into the light guide plate [21] takes place through side wall [4] (see Fig.13B).

Torihara et al. discloses the instant claimed invention except for reflecting layer at upper side of the channel.

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Kim et al. disclose (Fig.3) the reflecting layer [760] covering the light source and facing the light emitting surface. This reflecting layer is used for minimizing loss of light beams from the light source (page 3, [0052]).

It would have been obvious to one having ordinary skill in the art, at the time the invention was made, to provide the reflecting layer of Kim et al. at upper side of the channel of Torihara et al. in order to minimize loss of the light beams generated from the light source.

- 4. Referring to Claim 2 Torihara et al. discloses (Fig.12) that the side wall of the channels extends perpendicularly to the light emission surface and the upper side of the channel extend parallel to the light emission surface.
- 5. Referring to Claim 3 Torihara et al. disclose the instant claimed invention except for the lower side of the channel is covered with a reflecting layer.

Kim et al. disclose (Fig.3) the reflecting layer [760] covering the lower side of the light housing. It would have been obvious to one having ordinary skill in the art, at the time the invention was made, to provide the reflecting layer of Kim et al. at lower side of the channel of Torihara et al. opposite to the upper side in order to minimize loss of the light beams generated from the light source.

- 6. Referring to Claim 4 Torihara et al. disclose that the channels have rectangular cross-section.
- 7. Referring to Claim 5 Torihara et al. disclose (Fig. 2) that the channels are embedded in a lower side of the optical guide plate [3] opposed to the light emission surface.

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8. Referring to Claims 10, 11 Torihara et al. and Kim et al. disclose the instant claimed invention except for the first reflecting layer has a continuation in the form of a first portion extending in horizontal direction into the optical waveguide plate.

Kim et al. disclose (Fig.3) the first reflecting layer has a continuation in the form of a first portion extending in horizontal direction into the optical waveguide plate. While Kim et al. show this continuation at only one side of the housing it will of course be understood that continuation may be provided at both sides.

It would have been obvious to one having ordinary skill in the art, at the time the invention was made to provide the first reflecting layer having continuation in the form of a first portion extending in horizontal direction into the optical waveguide plate as taught by Kim et al. for device of Torihara et al. in order to avoid undesirable stray light to generate at the edges of the channel. It is also obvious that the continuation portion can be bent down to obtain the form extending along the side wall of the channel.

- 9. Referring to Claim 13 Torihara et al. and Kim et al. disclose a LCD device with a lighting device as claimed in claim 1 (Torihara et al., col.6, lines 65-67, Kim et al., Abstract, line1).
- 10. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Torihara et al. and Kim et al. as applied to claim 1 above, and further in view of Baechtelet al. (U.S. 2001/0043294).

Torihara et al. and Kim et al. disclose the instant claimed invention except for the light source is a low-pressure gas discharge lamp.

The fluorescent low-pressure gas discharge lamp is well known in the art and widely used to provide illumination in illumination devices because they are more efficient than incandescent bulbs in

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generating light. The lamp, usually in the form of a tubular bulb with an electrode sealed into each end, contains mercury vapor at low pressure with a small amount of inert gas.

As shown in Baechtelet al. reference the low-pressure gas discharge lamp is used as light source for liquid crystal color display (page 1, [0007].

It would have been obvious to one having ordinary skill in the art, at the time the invention was made to provide the low-pressure gas discharge lamp as taught by Baechtelet al. for device of Torihara et al. and Kim et al in order to obtain more efficient light generation.

Allowable Subject Matter

Claims 6, 8, 9, 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is an examiner's statement of reasons for allowance:

Referring to Claim 6 the prior art of record fails to show a guide plate having a plurality of optical elements in which the channels are provided and which are optically fixedly connected to the lower side of the optical waveguide plate opposite to the light emission surface.

Referring to Claim 8 the prior art of record fails to show the second reflecting layer extends over the lateral surfaces and the lower side of the optical waveguide plate.

Referring to Claim 9 the prior art of record fails to show that the second reflecting layer has a spacing forming an air gap from the optical wavwguide plate.

Referring to Claim 12 the prior art of record fails to show that the edges of the channels situated opposite the upper side are surrounded by a third reflecting layer.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Tsidulko whose telephone number is (703)308-1326. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (703) 305-4939. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703)308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

M.T.

November 21, 2002

Sandra O'Shea
Supervisory Patent Examiner

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